

IN THE CLAIMS

Please amend the claims as follows:

Claims 1-7 (Canceled).

Claim 8 (Currently Amended): A tag placed in an environment to be measured, comprising:

a plurality of reference markers configured together to form a particular geometric pattern;

an electronic label ~~that includes~~ including a memory loaded with information describing the particular geometric pattern formed by the plurality of reference markers and a remote information communication mechanism.

Claim 9 (Currently Amended): A tag according to claim 8, wherein the information includes ~~measurement position~~ geometric coordinates of positions of the plurality of reference markers on the tag.

Claim 10 (Previously Presented): A tag according to claim 8, wherein the electronic label also includes an information display.

Claim 11 (Currently Amended): A tag according to claim 10, wherein the information display is ~~an LCD~~ a liquid crystal display.

Claim 12 (Previously Presented): A tag according to claim 8, wherein the reference markers are either reflective or luminescent.

Claim 13 (Currently Amended): A tag according to claim 8, wherein the remote communication mechanism uses infrared or ~~radio~~radio frequency waves.

Claim 14 (Currently Amended): An environment measuring system comprising:
at least one measuring device;
a measurement operation calculator;
a tag ~~according to claim 8~~ which is used to measure an environment, said tag including a plurality of reference markers, configured to form a particular geometric pattern, and an electronic label including a memory loaded with information describing the particular geometric pattern formed by the plurality of reference markers; and
remote communication resources associated to the calculator and configured to communicate that depend on between the measurement operation calculator and that are connected to the a remote communication mechanism of included as part of the electronic label.

Claim 15 (New): A system for measuring an environment, comprising:
a device which is mobile in the environment, said device carrying a plurality of reference markers which make up a geometric pattern;
a sensor configured to sense the markers; and
a computer configured to calculate the position of the device based on an output from the sensor, wherein the device includes, a first transceiver configured to communicate with the computer, and an electronic label with a memory configured to store information including a description of the particular geometric pattern.

Claim 16 (New): A system according to Claim 15, wherein the geometric pattern includes geometric coordinates of the markers measured from a source of the device.

Claim 17 (New): A process for measuring an environment, comprising the following steps:

providing a device carrying a plurality of reference markers arranged in a particular geometric pattern in an environment;

sensing the markers;

obtaining positions of the markers and of the device;

interrogating an electronic label carried by the device; and

providing a description of the particular geometric pattern from a memory included in the label.

Claim 18 (New): A process according to claim 17, wherein the description of the particular geometric pattern includes geometric coordinates of the markers measured from a source of the device.